

REMARKS

Reexamination of the above-identified application is respectfully requested.

The Office Action

Claim 11 stands objected to for informalities.

The drawings were objected to under 37 CFR 1.83(a).

Claims 1-5, 9 and 10 stand rejected under 35 U.S.C. §103(a) as being unpatentable over Nguyen, et al. (U.S. Patent No. 6,483,232) in view of Cardwell, Jr. (U.S. Patent No. 3,746,906).

Claim 6 stands rejected under 35 U.S.C. §103(a) as being unpatentable over Nguyen, et al. (U.S. Patent No. 6,483,232) in view of Cardwell, Jr. (U.S. Patent No. 3,746,906) and further in view of O'Connell, et al. (U.S. Patent No. 6,086,227).

Claims 11, 12, 14, and stand rejected under 35 U.S.C. §103(a) as being unpatentable over Nguyen, et al. (U.S. Patent No. 6,483,232) in view of Cardwell, Jr. (U.S. Patent No. 3,746,906) and further in view of McBride, Jr., et al. (U.S. Patent No. 6,034,473).

Claim 15 stands rejected under 35 U.S.C. §103(a) as being unpatentable over Nguyen, et al. (U.S. Patent No. 6,483,232) in view of Cardwell, Jr. (U.S. Patent No. 3,746,906) and McBride, Jr., et al. (U.S. Patent No. 6,034,473), and further in view of O'Connell, et al. (U.S. Patent No. 6,086,227).

Claims 7, 8, 16, and 17 were objected to as being dependent on a rejected base claim.

Claim 20 was allowed.

The Drawings

The Examiner requests that the beam angle be shown in the FIGURES. Applicants note that the beam angle is shown in FIGURE 4 and have amended the specification to reflect this. It is submitted that no amendment to the FIGURES is necessary. Accordingly, it is respectfully requested that the objections to the drawings be withdrawn.

The Claim Objections

Applicants have amended claim 11 to recite the reflector as "comprising:".

The Claims Distinguish over the References of Record

Claim 1 recites a high brightness lamp which includes a concave reflector. A lens covers an open end of the reflector. The lamp emits light with a beam angle which is at least 45 degrees.

The Examiner suggests that FIGURE 2 of **Nguyen, et al.** discloses a lamp with a beam angle of at least 45 degrees. Applicants respectfully traverse. Nguyen discloses an aviation landing lamp for commercial aircraft. Such lamps do not have a beam angle of 45 degrees or even close to 45 degrees. The light is designed to be seen from the ground and thus a very narrow beam angle must be used to ensure that the light is not dissipated over a wide area. If a wide beam angle were to be used, the light would be so spread out by the time it reaches the ground, which may be several thousand feet away, that it would not be visible to the naked eye. In the case of Nguyen's lamp, the lens is typically constructed to ensure a beam angle of close to zero. Thus, there is no suggestion in Nguyen et al. of a lamp with a beam angle of at least 45 degrees.

The Cardwell, Jr. patent does not supply the deficiencies of the primary reference.

Accordingly, it is submitted that claim 1, and claims 2-6 and 9-10 dependent therefrom, distinguish patentably and unobviously over the references of record.

Moreover, with respect to claim 6, the Examiner argues that it would be obvious to use **O'Connell's** lenticules to spread the beam. It is submitted that there is no motivation to combine O'Connell's lenticules in an aviation light for an aircraft, as this would render the aviation light useless for its intended purpose, i.e., to be visible from the ground several thousand feet away.

Claim 7, which was considered to contain allowable subject matter, has been placed in independent form. Accordingly, it is submitted that claim 7, and claim 8 dependent therefrom, are now in condition for allowance.

Claim 11 recites a high brightness lamp having an end cap connected with a reflector for supporting the lamp from a ceiling socket, the end cap extending from the reflector along the axis of the lamp. A light source is positioned between a focal point of the reflector and the lens. The lamp emits light with a beam angle which is at least 45 degrees.

None of the references of record, alone or in combination, discloses such a lamp. The lamp of **Nguyen, et al.** does not have a beam angle of at least 45 degrees. **McBride** and **Cardwell, Jr.** do not supply the deficiencies of the primary reference. There is no suggestion in McBride or Cardwell of creating a beam angle of 45 degrees or more.

Accordingly, it is submitted that claim 11 distinguishes patentably and unobviously over the references of record.

Claim 12 recites a method of producing a high brightness beam of light having a wide beam angle. The method includes positioning a light source of a lamp between a focal point of a reflector and a lens, energizing the light source, and reflecting the light from the reflector. The reflector has a ratio of diameter to length along an axis of symmetry of the lamp which is from about 2.5:1 to about 3.5:1. The light is passed through a lens to increase a beam angle of the light. The lamp emits a beam of light with a beam angle which is at least 45 degrees.

The references of record do not suggest such a method. Nguyen, McBride, and Cardwell, Jr. do not disclose a lamp emitting a beam of light with a beam angle which is at least 45 degrees. Indeed, McBride teaches against a wide beam angle, and instead, concentrates the beam along the axis.

Accordingly, it is submitted that claim 12 and claims 14-15 and 18 dependent therefrom, distinguish over the references of record.

Claim 16, which was considered to contain allowable subject matter, has been placed in independent form. Accordingly, it is submitted that claim 16, and claim 17 dependent therefrom, are now in condition for allowance.

CONCLUSION

For the reasons set forth above, it is submitted that claims 1-12, 14-18 and 20 distinguish patentably over the references of record. An early allowance of these claims is earnestly solicited.

Respectfully submitted,

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